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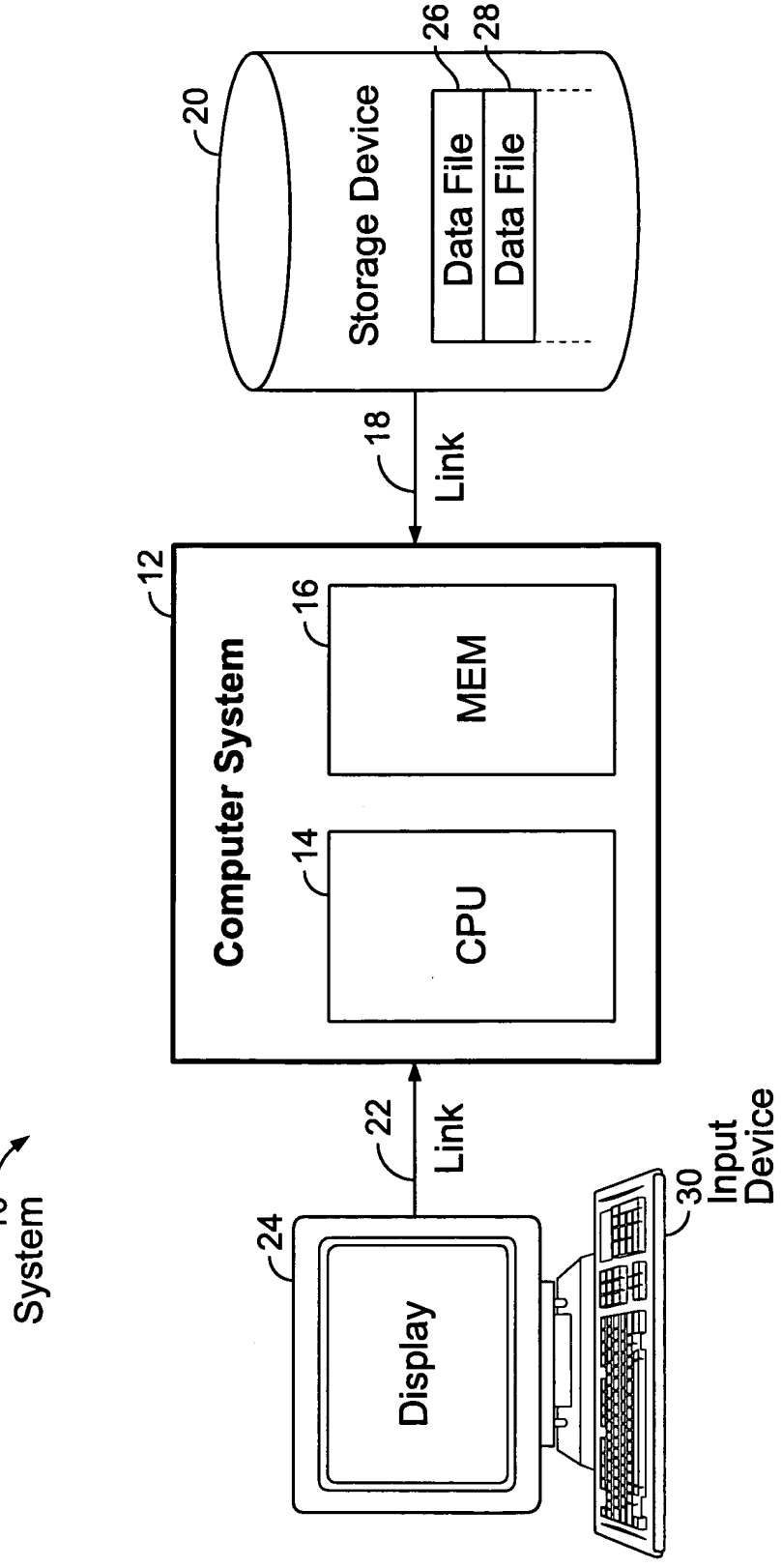

FIG. 1

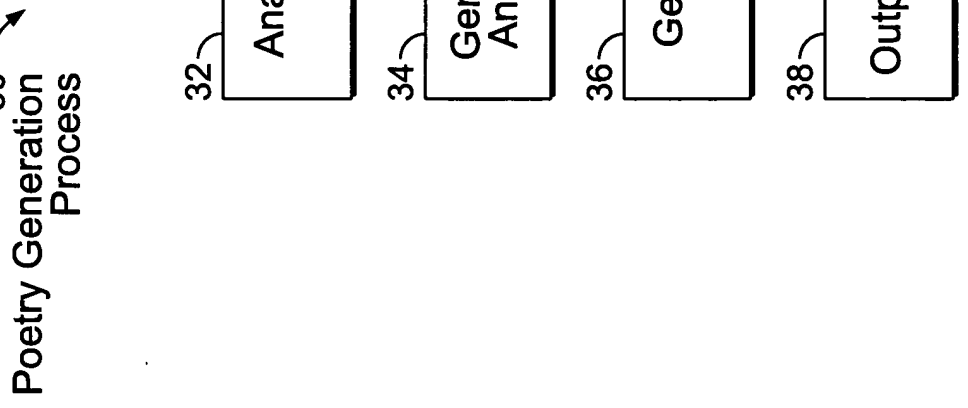
30
Poetry Generation Process
32
Analyze Original Poem
34
Generate Author Analysis Model
36
Generate New Poem
38
Output New Poem

FIG. 2

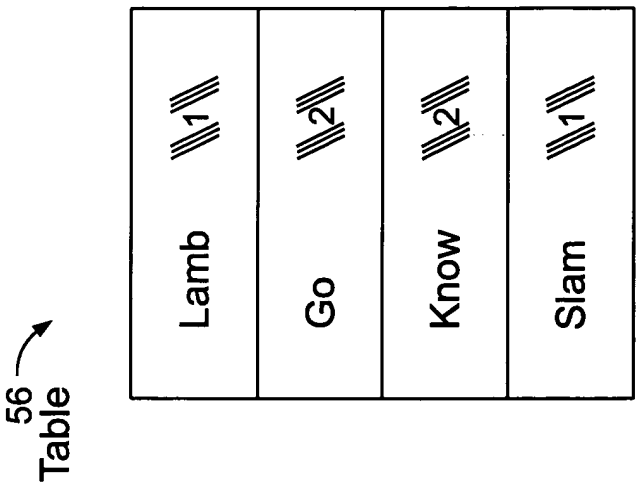
56
Table
Lamb
1
Go
2
Know
2
Slam
1

FIG. 4

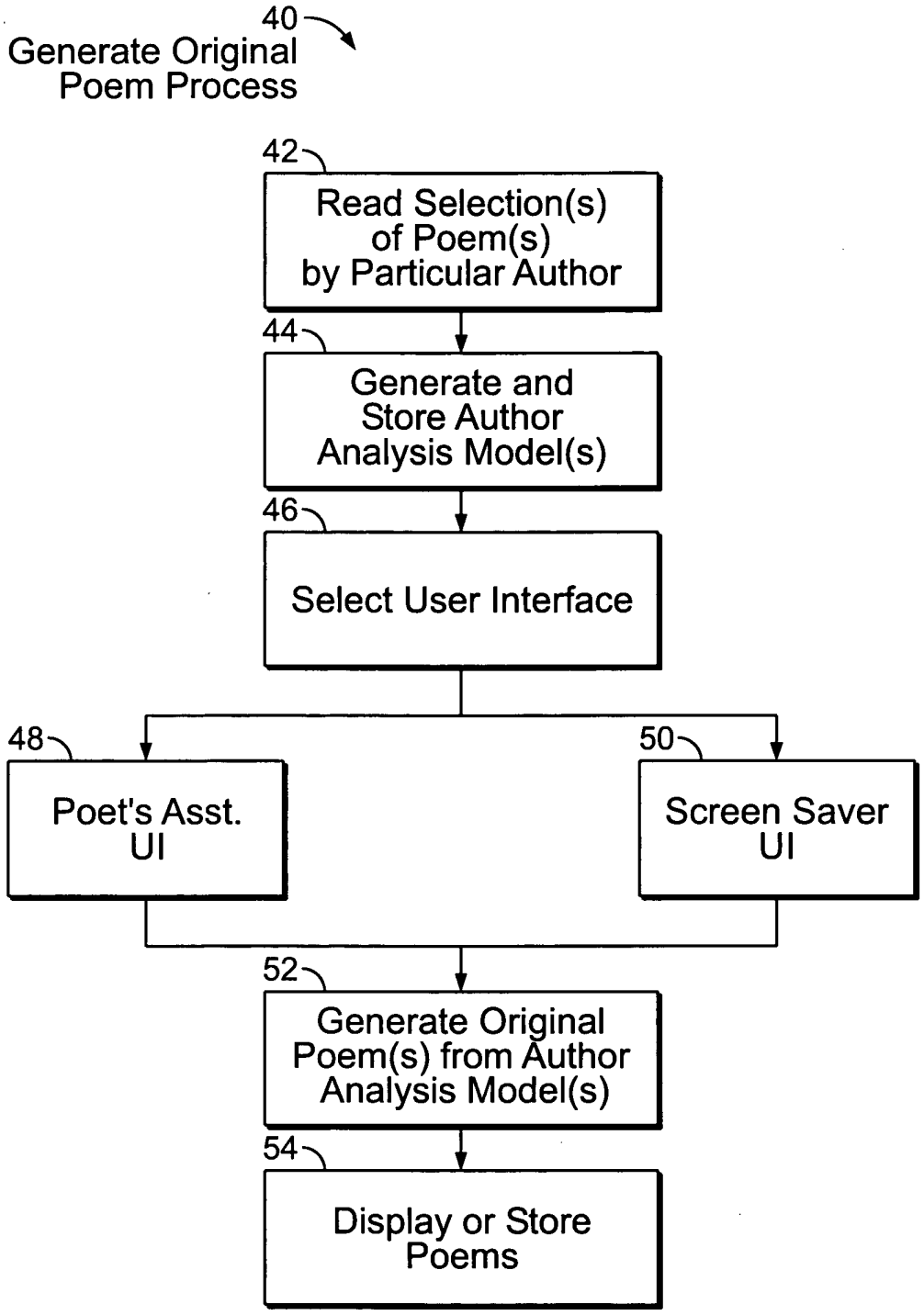
40
Generate Original Poem Process
42
Read Selection(s) of Poem(s) by Particular Author
44
Generate and Store Author Analysis Model(s)
46
Select User Interface
48
Poet's Asst. UI
50
Screen Saver UI
52
Generate Original Poem(s) from Author Analysis Model(s)
54
Display or Store Poems

FIG. 3

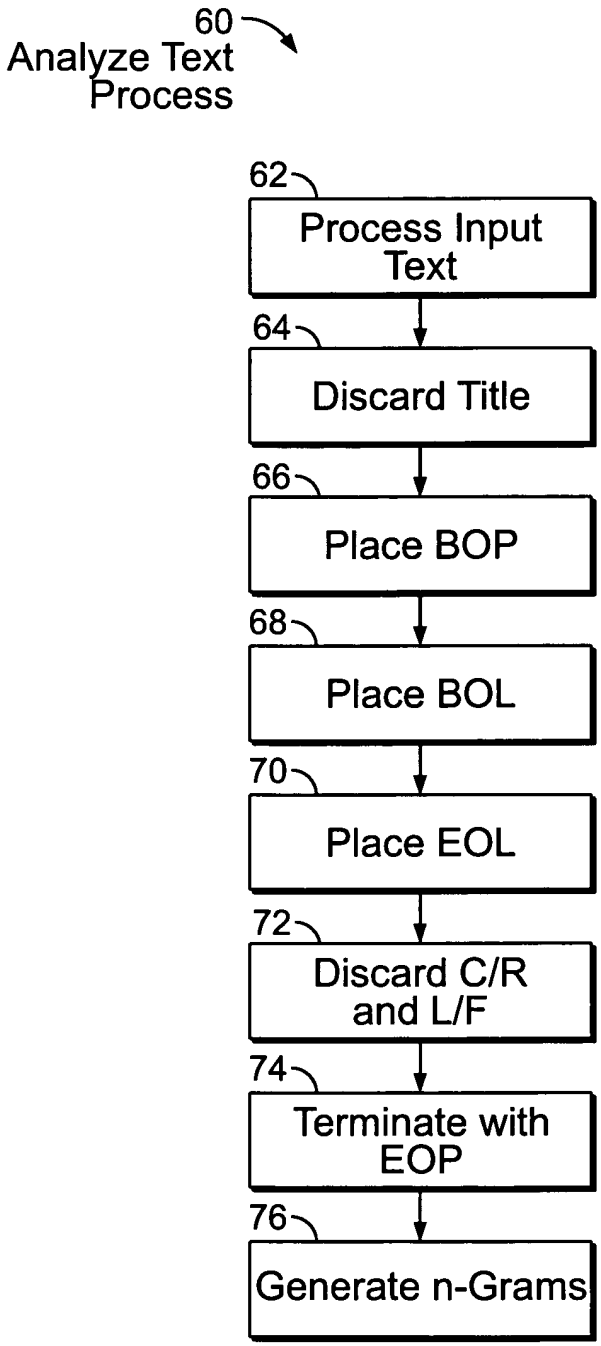
60
Analyze Text Process
62
Process Input Text
64
Discard Title
66
Place BOP
68
Place BOL
70
Place EOL
72
Discard C/R and L/F
74
Terminate with EOP
76
Generate n-Grams

FIG. 5

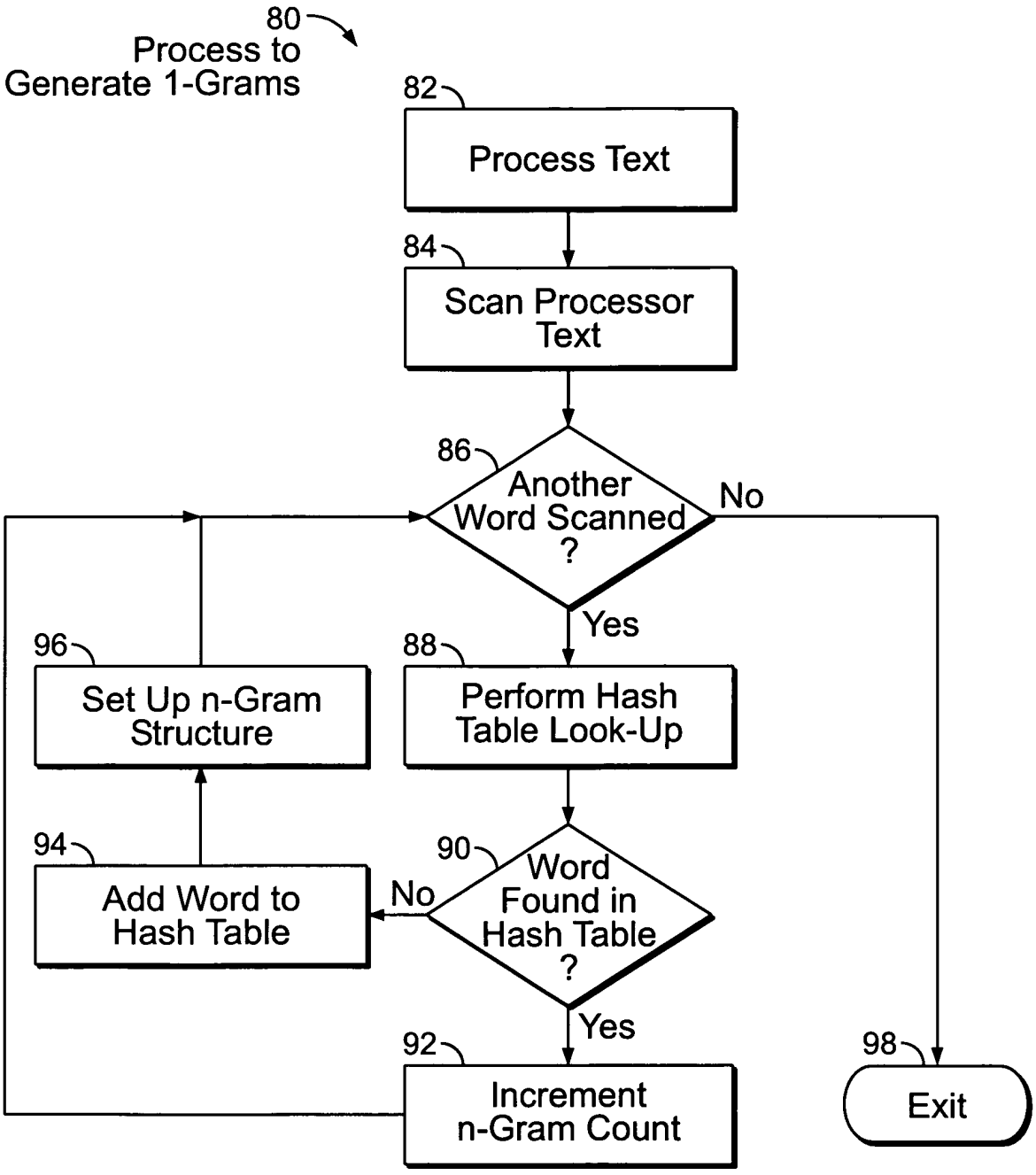
80
Process to Generate 1-Grams
82
Process Text
84
Scan Processor Text
86
Another Word Scanned ?
No
Yes
88
Perform Hash Table Look-Up
90
Word Found in Hash Table ?
No
Yes
92
Increment n-Gram Count
94
Add Word to Hash Table
96
Set Up n-Gram Structure
98
Exit

FIG. 6

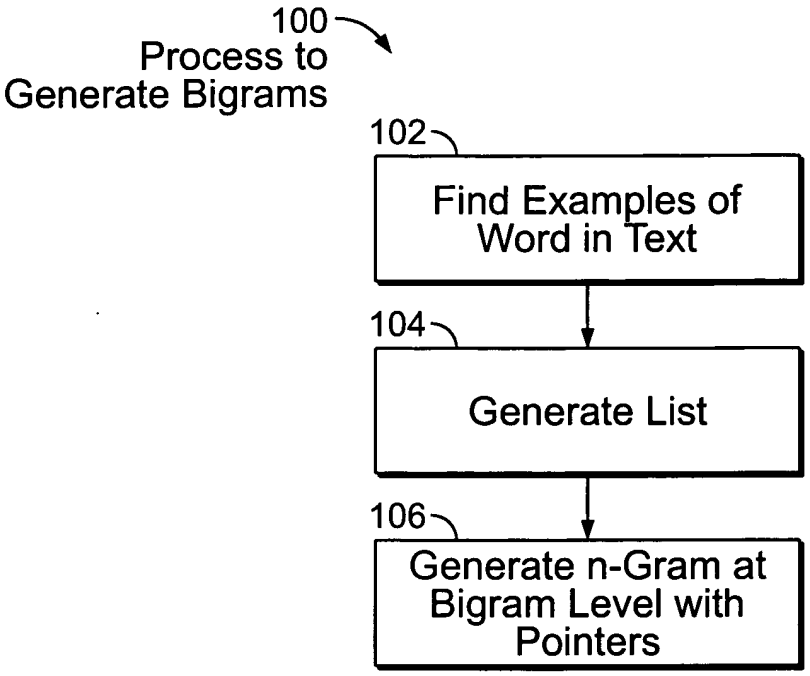
100
Process to Generate Bigrams
102
Find Examples of Word in Text
104
Generate List
106
Generate n-Gram at Bigram Level with Pointers

FIG. 7

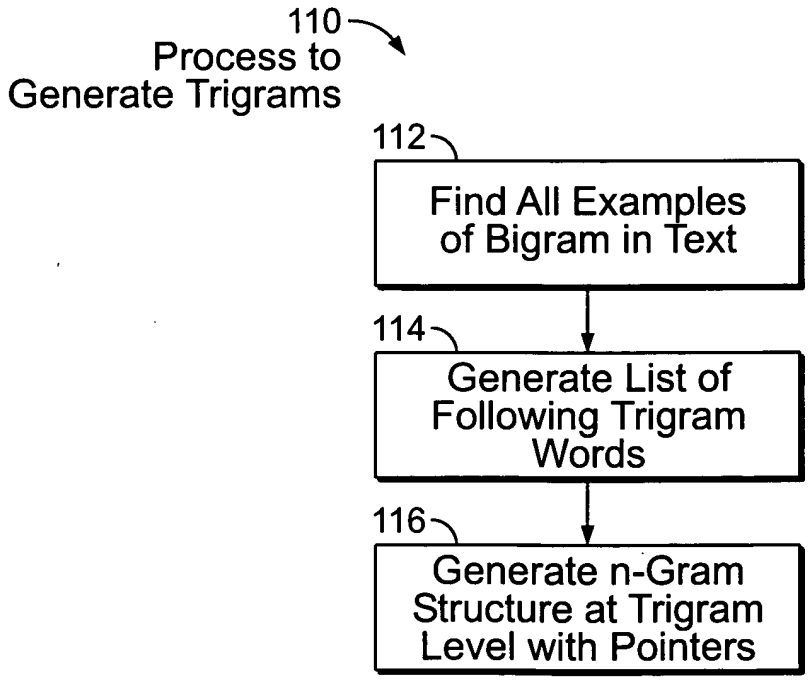
110
Process to Generate Trigrams
112
Find All Examples of Bigram in Text
114
Generate List of Following Trigram Words
116
Generate n-Gram Structure at Trigram Level with Pointers

FIG. 8

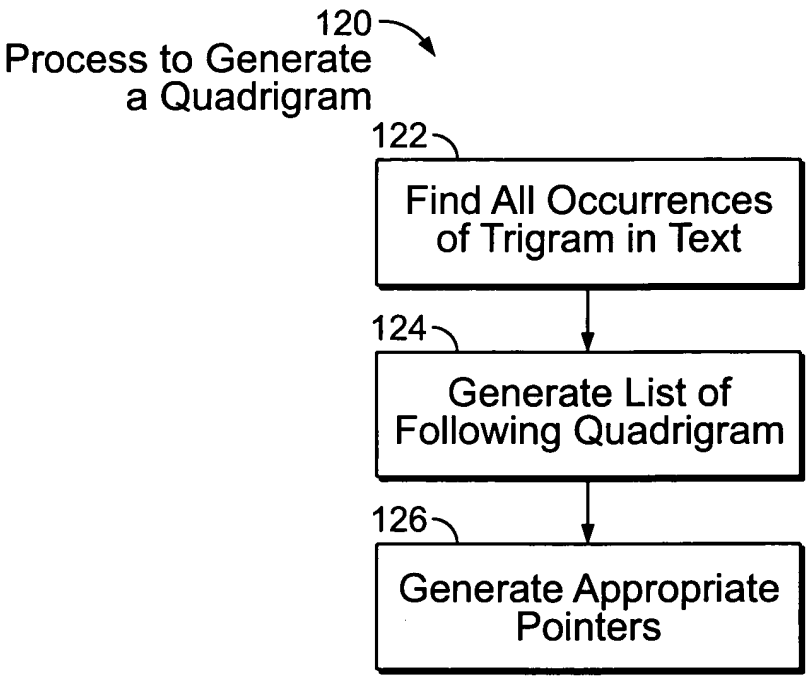
120
Process to Generate a Quadrigram
122
Find All Occurrences of Trigram in Text
124
Generate List of Following Quadrigram
126
Generate Appropriate Pointers

FIG. 9

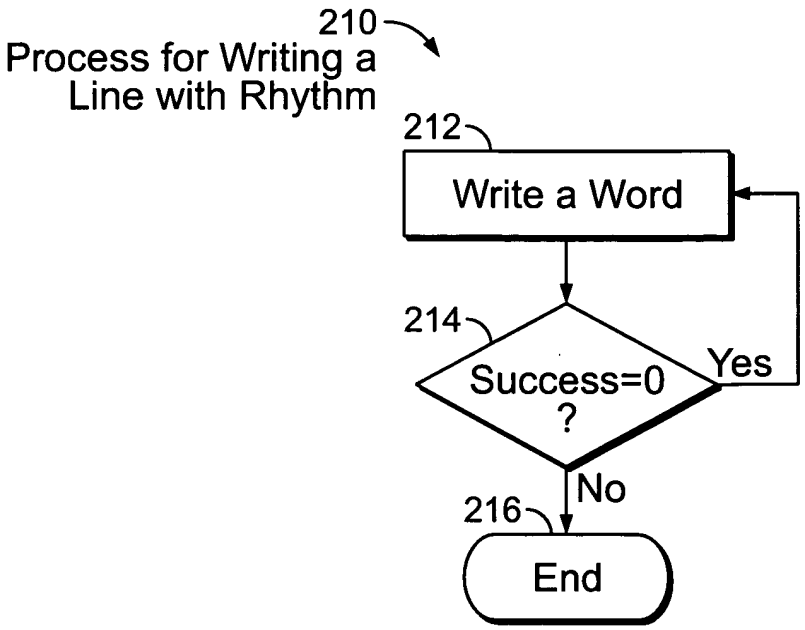
210
Process for Writing a Line with Rhythm
212
Write a Word
214
Success=0 ?
Yes
No
216
End

FIG. 13

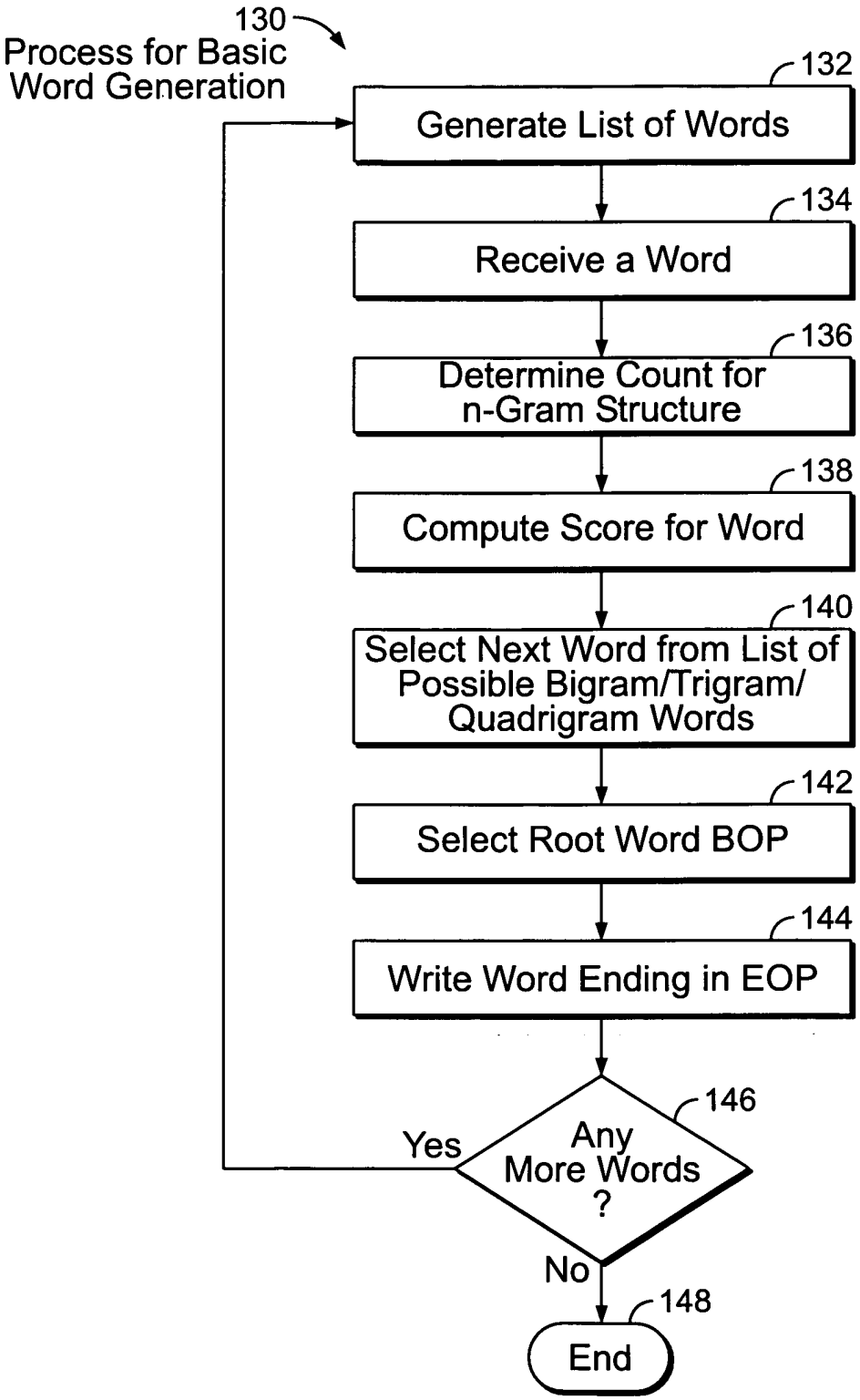
130
Process for Basic Word Generation
132
Generate List of Words
134
Receive a Word
136
Determine Count for n-Gram Structure
138
Compute Score for Word
140
Select Next Word from List of Possible Bigram/Trigram/ Quadrigram Words
142
Select Root Word BOP
144
Write Word Ending in EOP
146
Any More Words ?
Yes
No
148
End

FIG. 10

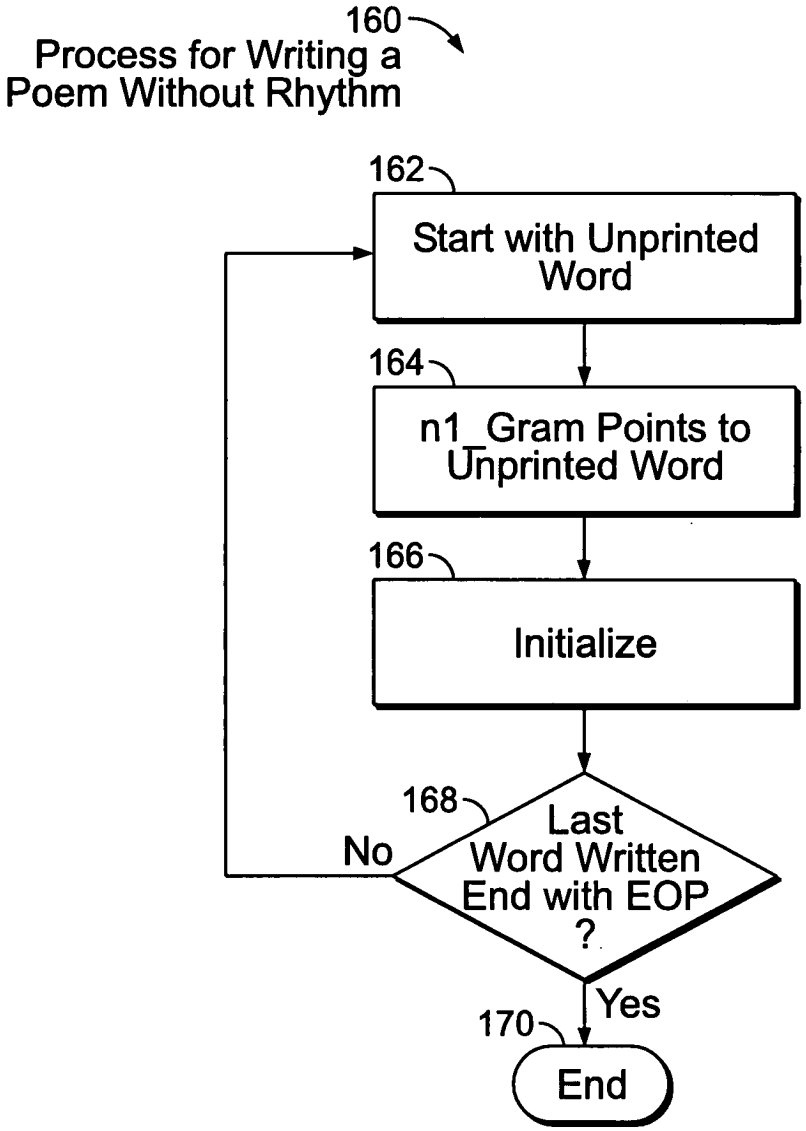
160
Process for Writing a Poem Without Rhythm
162
Start with Unprinted Word
164
n1_Gram Points to Unprinted Word
166
Initialize
168
Last Word Written End with EOP ?
No
Yes
170
End

FIG. 11

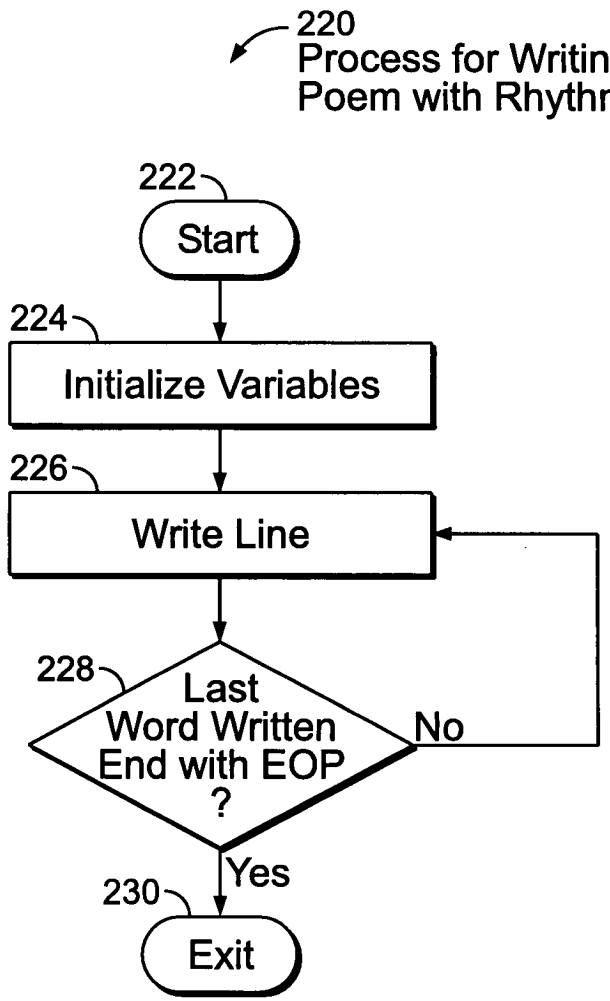
220
Process for Writing a Poem with Rhythm
222
Start
224
Initialize Variables
226
Write Line
228
Last Word Written End with EOP ?
No
Yes
230
Exit

FIG. 14

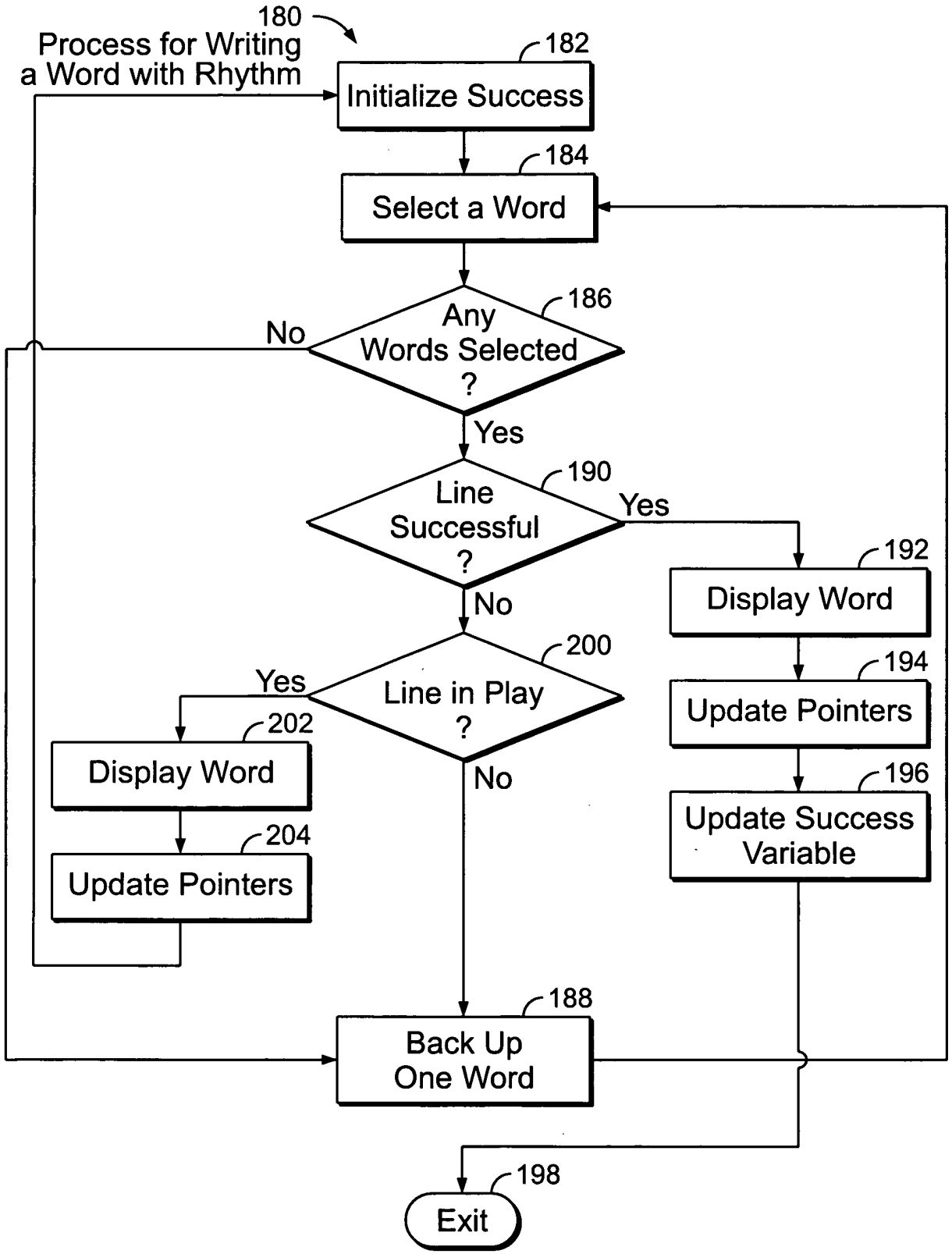
180
Process for Writing a Word with Rhythm
182
Initialize Success
184
Select a Word
186
Any Words Selected ?
No
Yes
190
Line Successful ?
Yes
No
192
Display Word
194
Update Pointers
196
Update Success Variable
200
Line in Play ?
Yes
No
202
Display Word
204
Update Pointers
188
Back Up One Word
198
Exit

FIG. 12

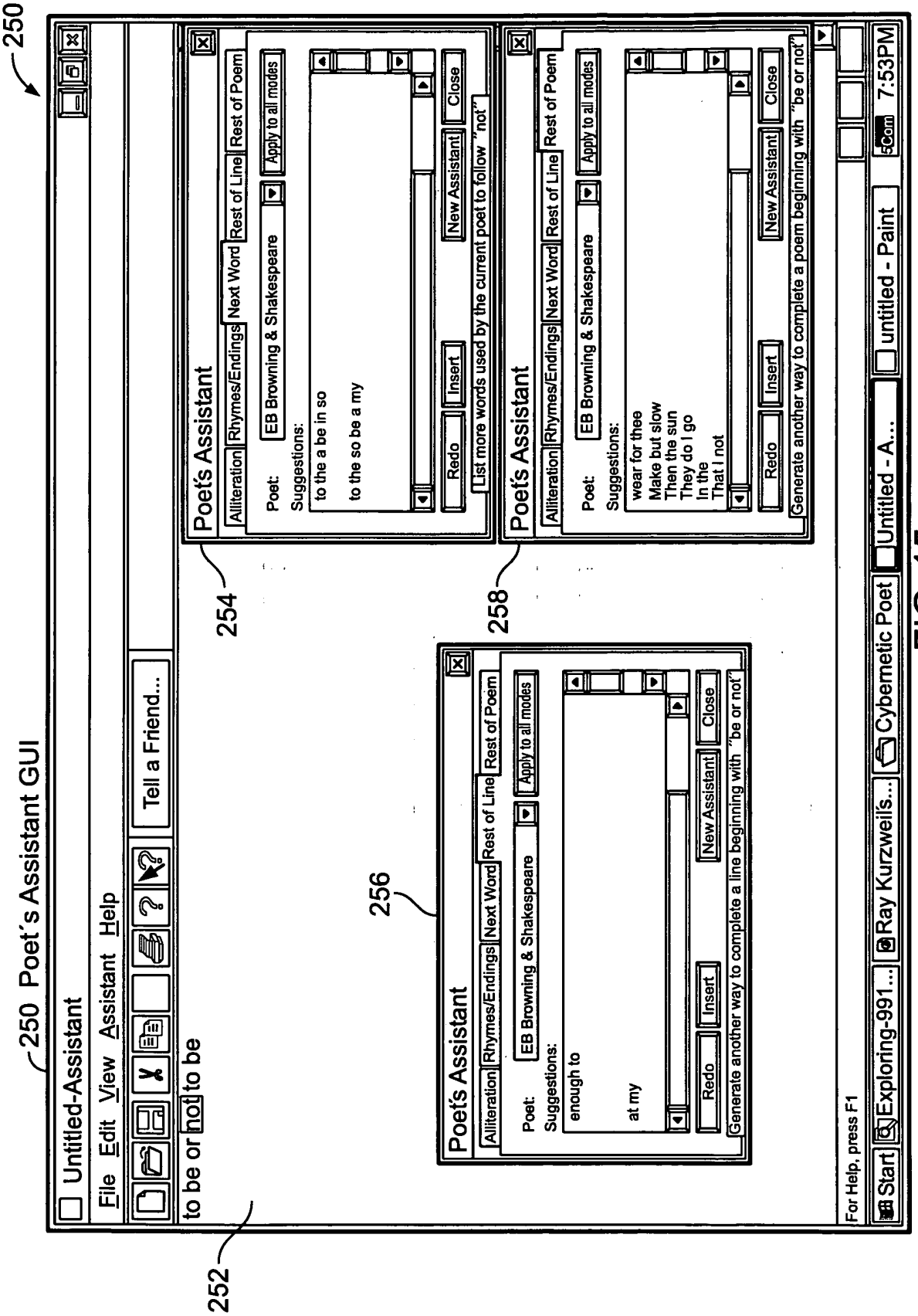
250
250 Poet's Assistant GUI
Untitled-Assistant
File Edit View Assistant Help
Tell a Friend...
to be or not to be
252
Poet's Assistant
Alliteration
Rhymes/Endings
Next Word
Rest of Line
Rest of Poem
Poet:
EB Browning & Shakespeare
Apply to all modes
Suggestions:
to the a be in so
to the so be a my
Redo
Insert
New Assistant
Close
List more words used by the current poet to follow "not"
254
Poet's Assistant
Alliteration
Rhymes/Endings
Next Word
Rest of Line
Rest of Poem
Poet:
EB Browning & Shakespeare
Apply to all modes
Suggestions:
wear for thee
Make but slow
Then the sun
They do I go
In the
That I not
Redo
Insert
New Assistant
Close
Generate another way to complete a poem beginning with "be or not"
258
256
Poet's Assistant
Alliteration
Rhymes/Endings
Next Word
Rest of Line
Rest of Poem
Poet:
EB Browning & Shakespeare
Apply to all modes
Suggestions:
enough to
at my
Redo
Insert
New Assistant
Close
Generate another way to complete a line beginning with "be or not"
For Help, press F1
Start
Exploring-991...
Ray Kurzweil's...
Cybemetic Poet
Untitled - A...
untitled - Paint
7:53PM

FIG. 15